

BURNS AND ROE SERVICES CORPORATION

Utilities Contract

PSC 1005, Box 99 FPO AE 09593-0150 U.S. Naval Station, Guantanamo Bay, Cuba Phone: 011-5399-5063 / 5064 Fax: 011-5399-4177

> 03 June 2004 Contract #N62470-00-D-5224

Contract Administrator ROICC PSC 1005, Box 37 FPO AE 09593-0137

Attn. : Ms. Molly Popham

Subj. : Consumer Confidence Report – Drinking Water

Encl. : (1) Annual Consumer Confidence Report on the Quality of Drinking Water; U.S. Naval

Station, Guantanamo Bay, Cuba; June 2004

Enclosure (1) is provided in accordance with the requirements of Section J-C3-2 of the Utilities Contract.

If you have any questions or require more information please contact me at Ext. 5063 / 5064.

Respectfully,

John A. Adams

Deputy Project Manager

Utilities Contract

cc: Allan Robichaux - FSCM / CSR Supervisor

Randy King – Project Manager Rick Goundry – Asst. QC Manager Rick Weber – WDS Supervisor

File

Annual Consumer Confidence Report on the Quality of Drinking Water U. S. Naval Station, Guantanamo Bay June 2004

• What is the purpose of this report?

This is an annual report on the quality of water delivered by the U. S. Naval Station, Guantanamo Bay (GTMO). A requirement for this was brought about when Congress amended the Safe Drinking Water Act in 1996. It added a provision requiring all community water systems to deliver a brief annual water quality report to their customers. Included in this report is pertinent information about the source of our water, any contaminants detected and possible sources of contaminants for the calendar year 2003.

• What is the source of our water and the basic treatment process?

Our raw water supply is drawn from Guantanamo Bay, approximately 160 feet north of the DESAL Water & Power Plant Compound. This is our "source water" and in our case, it is salt water. The source water is turned into drinking water through a process called "reverse osmosis". A textbook definition of reverse osmosis (RO) is: The application of pressure to a concentrated solution that causes the passage of a liquid from the concentrated solution to a weaker solution across a semi-permeable membrane. The membrane allows the passage of water (solvent); but does not allow the passage of the dissolved solids (solutes). The RO plant is currently capable of producing about 1.5 million gallons per day. Water produced from the RO plant is transferred to treated water storage tanks before being processed through the water treatment plant. At the treatment plant, water is held in large storage tanks before entering the distribution system to the customer's tap.

• Is our water system meeting the rules that govern our operations?

The quality of drinking water at GTMO is in compliance with the Final Governing Standards (FGS) for Cuba. The FGS establishes monitoring frequencies for possible contaminants and requires us to keep records of all water quality tests. We are in compliance with the FGS.

How can I get involved?

If you have any questions about the quality of water at GTMO or would like more information on the Drinking Water Program at GTMO; please contact Public Works Environmental Office at 4662.

Do I need to take any special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons (such as those with cancer undergoing chemotherapy; persons who have undergone organ transplants; people with HIV / AIDS or other immune system disorders; some elderly and infants) can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA / CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

• Are there contaminants in my drinking water and why?

Drinking water (including bottled water) may reasonably be expected to contain at least small amounts of contaminants. There presence does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Contaminants that may be present in source waters include:

Microbial Contaminants: such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

Inorganic Contaminants: such as salts and metals that can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Pesticide & Herbicide Contaminants: may come from a variety of sources such as agriculture storm water runoff and residential uses.

Organic Chemical Contaminants: may include synthetic and volatile organic chemicals that may be by-products of industrial processes or petroleum production; and can also come from gas station, urban storm water runoff and septic systems.

Radioactive Contaminants: can be naturally occurring or be the result of oil and gas production and mining activities.

• Glossary: The definitions and abbreviations below give a better understanding to the meaning of terms and abbreviations concerning contaminants found in our drinking water as indicated in the table on the next page.

AL: Action Level. The concentration of a contaminant (which, if found to be exceeded) will trigger further treatment or other procedures that the water system must follow to lower the level.

MCL: Maximum (allowable) Contaminant Level. The highest level of a contaminant that is allowed in drinking water (by regulation).

MCLG: Maximum Contaminant Level Goal. The level of a contaminant in drinking water below which there is no known or expected risk to health.

mg/L: milligrams per liter, equivalent to parts per million.

ND: Not detectable. A value below the detectable limit by the lab test procedure.

NPDWR: National Primary Drinking Water Regulations: legally enforceable standards that apply to public water supply systems. Primary standards aim at protecting drinking water quality by setting limits on the levels of specific contaminants that can adversely affect public health and are known or anticipated to occur in public water systems.

NSDWR: National Secondary Drinking Water Regulations: non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to water systems but does not require systems to comply.

NTU: Nephelometric Turbidity Units -- a measure of the clarity of water. Turbidity is measured with an instrument called a nephelometer, which measures the intensity of light scatted by suspended matter in the water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Pc i/L: picocuries per liter -- a measure of radioactivity in water.

Turbidity: A measure of the cloudiness of water. We measure turbidity because it is a good indicator of the effectiveness of the water treatment system.

Level of Detected Contaminants: Year 2003

Contaminant	Units	MCLG	MCL or Highest Level Allowed	Level Detected (or Range of Detections)	Viola- tions (Y/N)	Typical Source of Contaminant					
1. NPDWR (enforceable)											
A. ORGANICS											
Total Trihalomethanes (TTHM's)	mg/L	0	0.1	0.03936	No	by-product of disinfection by chlorination					
B. INORGANICS											
Copper	mg/L	1.3	AL=1.3	ND – 0.11	No	corrosion of plumbing; erosion of natural deposits					
Lead	mg/L	0	AL=0.015	ND – 0.0017	No	corrosion of plumbing; erosion of natural deposits					
Fluoride	mg/L	4	4	0.44 -1.17	No	water treatment additive which promotes strong teeth; erosion of natural deposits					
Nitrate	mg/L	10	10	ND	No	run-off from fertilizer use; erosion of natural deposits					
C. MICROBIALS											
Total Coliform	number of positive samples	0	1 positive sample / 40 tests	0	No	naturally present in the environment; human and animal fecal waste					
Turbidity	NTU	n/a	1	0.28 – 0.77	No	soil run-off; breakdown of natural minerals and deposits					

2. NSDWR (recommended / non-enforceable)									
Sodium	mg/L	n/a	250	86	n/a	breakdown of natural minerals and deposits			
Chlorides	mg/L	n/a	250	110 - 160	n/a	breakdown of natural minerals and deposits			
Iron	mg/L	n/a	0.3	0.01 - 0.18	n/a	water distribution pipe corrosion			
Sulfate	mg/L	n/a	250	ND - 1.0	n/a	run-off from fertilizer use; erosion of natural deposits			
Total Dissolved Solids	mg/L	n/a	500	251 - 348	n/a	breakdown of natural minerals and deposits			